Appl. No. 10/565,561

Amdt. dated Mar. 1, 2007

Reply to Office action of Dec. 1, 2006

**AMENDMENTS TO THE CLAIMS:** 

This listing of claims will replace all prior versions and listings of claims in the

application:

**Listing of Claims**:

Claims 1 and 2. (Canceled)

3. (Previously presented) In a fuel injection system having an injection valve, a line supplying

fuel at high pressure to the injection valve in operation, a control valve which controls the

pressure in a control chamber of the injection valve that communicates with the aforementioned

line, the control valve including movable valve part actuatable by an actuator via a hydraulic

coupler that has two pistons, cooperating with a coupler volume of the coupler, the seat of the

movable valve part has an inside cross-sectional area f3, with means for filling the coupler

volume via guide gaps of the pistons with fuel that is under pressure,

the improvement wherein the pistons are located parallel to one another with one inside

the other; the system also comprising a booster chamber located on the ends of the pistons toward

the actuator a filling chamber in the interior of the outer piston provided, the filling chamber

communicating with the aforementioned line; and rod means mechanically coupling a cross-

sectional area f4 of the one piston to the actuator the rod having a cross-sectional area f5; the

other piston, having a piston area f2 and actuating the control valve via a rod having a cross-

Page 2 of 5

Appl. No. 10/565,561

Amdt. dated Mar. 1, 2007

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sectional area that is smaller than f2; the direction of the closing motion of the movable valve

part matching the direction of fuel flowing out of the control chamber, so that the control valve

is at least partially force-balanced because of the pressure acting on the further piston in the

booster chamber.

4. (Previously presented) The fuel injection system according to claim 3, further comprising

a further filling chamber, which communicates with the aforementioned line and is in

communication with the coupler via a guide gap of the rod at least in one region of the rod,

connecting the actuator to the hydraulic coupler, at a distance from the chamber of the coupler

that is closest to the actuator.